

Claim Amendment under 37 CFR 1.121(c)

1. (Currently Amended) A method for producing human *lactoferrin* by using an insect cell comprising the steps of:
  - (a) combining a transfer vector [[1]] pBacPAK8 with a recombinant plasmid phLf-8 [[2]] (that is the same as pT7T3-hLf which has pT7T3 18U backbone, pharmacia and human lactoferrin gene using SalI and HindIII site) to produce a recombinant expression vector pBacLf [[3]] (that is the same as pBacPAK-hLf) modified to permit the regulation of a *lactoferrin* gene by a polyhedrin promoter in a vector pBacPAK8;
  - (b) cotransfected said recombinant expression vector together with a help vector BacPAK6 viral DNA [[4]] into an insect cell Sf9 [[5]] in a culture medium to produce a recombinant insect cell Sf-Lf [[6]], and producing a recombinant insect virus from said recombinant insect cell resulting from homologous recombination through AcMNPV and AcNPV site; and
  - (c) producing human *lactoferrin* [[from]] using said recombinant insect virus [[cell sf Lf 6]].
2. (Original) The method of claim 1, wherein said producing a recombinant insect virus step further comprises the step of performing a centrifugal separation of the culture medium containing the recombinant insect cell cultured in the producing step (b) to obtain a progeny virus from the insect cell contained in the upper layer.
3. (Cancelled)
4. (Currently Amended) A recombinant insect virus produced by a method comprising the steps of:
  - (a) combining a transfer vector [[1]] pBacPAK8 with a recombinant plasmid phLf-8 [[2]] (that is the same as pT7T3-hLf which has pT7T3 18U backbone, pharmacia and human lactoferrin gene using SalI and HindIII site) to produce a recombinant expression vector pBacLf [[3]] (that is the same as pBacPAK-hLf)

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modified to permit the regulation of a *lactoferrin* gene by a polyhedrin promoter in a vector pBacPAK8;

(b) cotransfected said recombinant expression vector together with a help vector BacPAK6 viral DNA [[4]] into an insect cell Sf9 [[5]] in a culture medium to produce and culture a recombinant insect cell Sf-Lf [[6]]; and

(c) producing a recombinant insect virus from said recombinant insect cell Sf-Lf resulting from homologous recombination through AcMNPV and AcNPV site.

5. (Cancelled)
6. (Currently Amended) [[The method of claim 5, wherein said]] A biological verification method for a recombinant human lactoferrin, comprising the steps of:
  - (a) mixing human lactoferrin produced by the method of claim 1 with a pathogenic microorganism selected from the group consisting of *Pseudomonas cepacia*, *Pseudomonas putida*, *Salmonella typhimurium*, *Pseudomonas fluorescens* and *E. coli* 300; and,
  - (b) measuring anti-bacterial activity of said mixture against the pathogenic microorganism.

## Annotated Marked-up Drawings